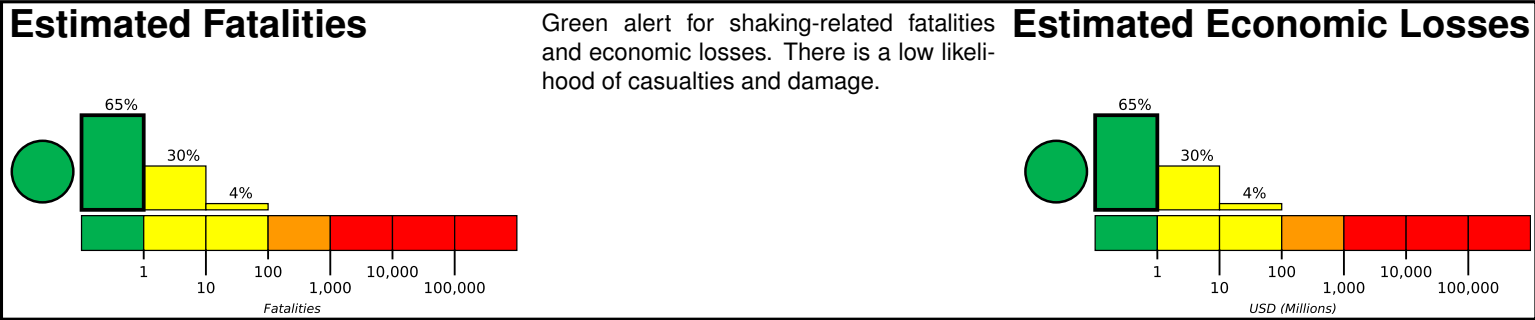


M 5.4, southeast of the Loyalty Islands

Origin Time: 2023-05-20 02:17:49 UTC (Sat 13:17:49 local)
Location: 23.1382° S 170.5569° E Depth: 39.4 km

PAGER Version 5

Created: 3 weeks, 1 day after earthquake

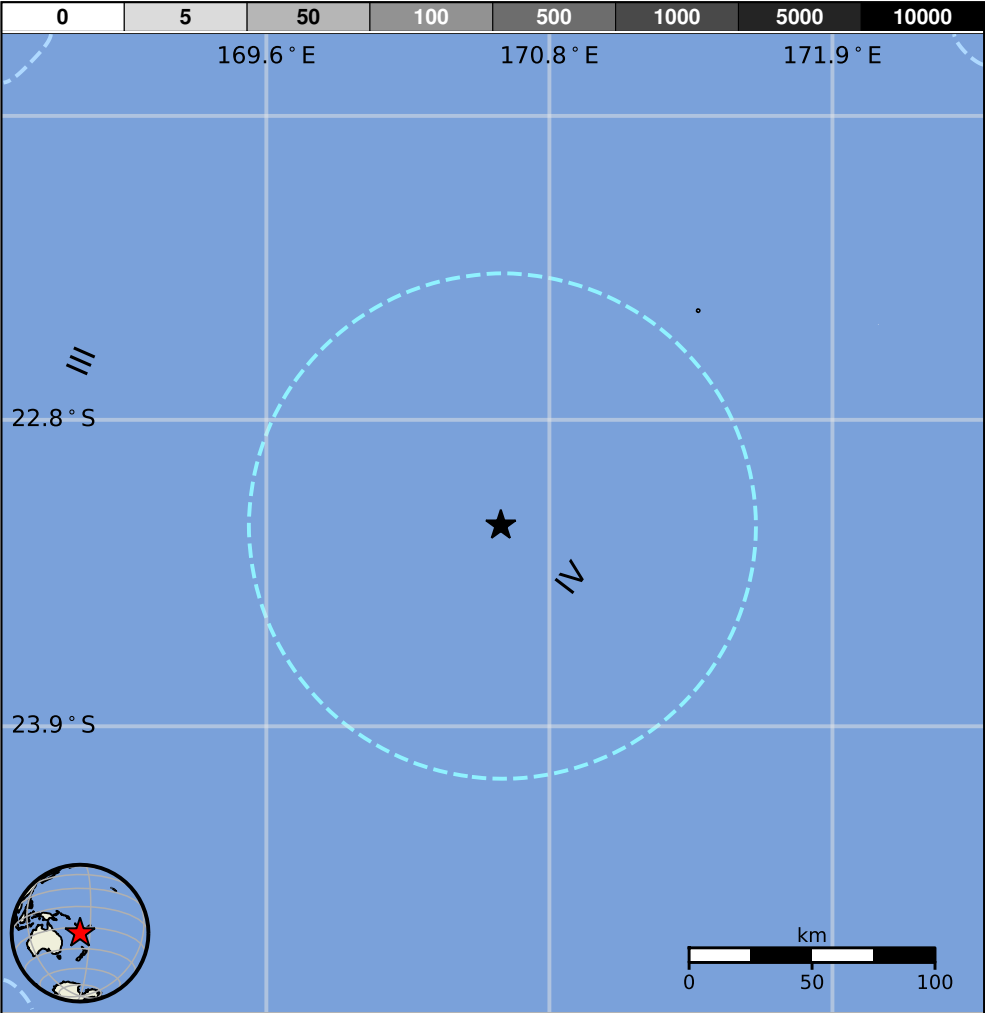


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are informal (metal, timber, GI etc.) and wood construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1980-03-08 | 107 | 7.2 | I(0) | — |
| 2007-03-25 | 303 | 7.1 | VI(22k) | — |
| 1973-12-09 | 365 | 6.9 | VII(10k) | — |

Selected City Exposure

| MMI | City | Population |
|----------------------------|------|------------|
| bold cities appear on map. | | |